

1 **WHAT IS CLAIMED IS:**

2 1. A pulsating dental sprayer comprising:

3 a body adapted to connect to a water source and having

4 a handle with a first passage defined through the handle; and

5 a spraying head connected to the handle and having a second

6 passage communicating with the first passage; and

7 a turbine rotor rotatably received in the body and having

8 a semicircular ring having an outer periphery;

9 multiple first extension blades formed on and extending radially
10 from the outer periphery of the ring;

11 a semicircular top cover attached to the ring to construct a circle in
12 cooperation with the semicircular ring; and

13 multiple second extension blades radially formed on the top cover
14 and corresponding to the first extension blades on the ring.

15 2. The dental sprayer as claimed in claim 1, wherein the handle has a
16 first end and a second end;

17 a baffle is formed in the first passage near the first end so as to define a
18 chamber in the first end of the handle;

19 a bore is defined through the baffle to communicate with the chamber;

20 and

21 the turbine rotor is rotatably received in the chamber in the handle.

22 3. The dental sprayer as claimed in claim 2 further comprising a cap

23 attached to the first end of the handle to close the chamber and having

24 at least one through hole defined in the cap and communicating with

1 the chamber in the handle; and

2 a connecting tube extending from the cap and enclosing the through
3 holes,

4 wherein the spraying head is attached to the connecting tube on the cap
5 to be connected via the cap to the handle.

6 4. The dental sprayer as claimed in claim 3, wherein the through holes
7 are arranged in a circle that concentrically aligns with the bore in the baffle.

8 5. The dental sprayer as claimed in claim 3, wherein the handle has an
9 outer thread formed on the first end; and

10 the cap has an inner thread screwed with the outer thread on the handle
11 to attach the cap to the handle.

12 6. The dental sprayer as claimed in claim 5 further comprising a plunger
13 inserted into the handle at one end far away from the spraying head.

14 7. The dental sprayer as claimed in claim 1, wherein the spraying head is
15 L-shaped.

16 8. The dental sprayer as claimed in claim 1, wherein the spraying head
17 has a chamber defined in the spraying head at one end away from the handle and
18 communicating with the second passage; and

19 the turbine rotor is rotatably received in the chamber in the spraying
20 head.

21 9. The dental sprayer as claimed in claim 8 further comprising a cap
22 attached to the spraying head to close the chamber in the spraying head and
23 having at least one through hole communicating with the chamber.

24 10. The dental sprayer as claimed in claim 9 further comprising a tube

1 extending from the cap and communicating with the at least one through hole.
2 11. The dental sprayer as claimed in claim 10, wherein the cap has
3 multiple through holes defined in the cap and arranged respectively in two
4 groups; and
5 two tubes are mounted on and extend from the cap and respectively
6 communicate with the two groups of the through holes.
7 12. The dental sprayer as claimed in claim 11, wherein each respective
8 tube is L-shaped and has an opening facing to each other.
9 13. The dental sprayer as claimed in claim 12, wherein the body is a
10 tubular body formed as a sucking tube.